TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-01-13-02** **Date: 21-01-2017**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Narasipura 1st Stage in ward No.09 in Vidyaranyapura Sub Division.
Agency	:	Sri. Aswathnarayana, #38, Channappa layout, Sharadamba nagara, Jalahalli village, Bangalore-13.
Customer's Reference	:	EE/BTP/BBMP/E-PMT/228/2015-16
Source of Sample	:	Sample supplied by the Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-01-2017
Sample ID No	:	2017-01-13-02-02
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete
		IS: 2386 :1963(Part - 1, 2, 3) RA2011
		IS 2386 Part 1: Particle Size and Shape
		IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities.
		IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	14-01-2017
Total weight taken	:	1000 grams

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:1970			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	69	69	6.9	93.1	90-100	90-100	90-100	95-100
3	2.36 mm	108	177	17.7	82.3	60-95	75-100	85-100	95-100
4	1.18 mm	92	269	26.9	73.1	30-70	55-90	75-100	90-100
5	600 micron	239	508	50.8	49.2	15-34	35-59	60-79	80-100
6	300 micron	336	844	84.4	15.6	5-20	8-30	12-40	15-50
7	150 micron	115	959	95.9	4.1	0-10	0-10	0-10	0-15
8	Pan	41	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-01-13-02** **Date: 21-01-2017**

Sample ID No : 2017-01-13-02-02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970 (RA2016)
1	Water Absorption(%)	2.65	_
2	Specific Gravity	2.53	_
3	Material finer than 75 micron(%)	5.20	Not more than 15 percent

Note:
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Prepared by
Harshitha

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-01-13-02** **Date: 21-01-2017**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Narasipura 1st Stage in ward No.09 in Vidyaranyapura Sub Division.
Agency	:	Sri. Aswathnarayana, #38, Channappa layout, Sharadamba nagara, Jalahalli village, Bangalore-13.
Customer's Reference	:	EE/BTP/BBMP/E-PMT/228/2015-16
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	03-01-2017
Sample ID No	:	2017-01-13-02-01(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	14-01-2017

Asistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore-97

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken: **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	80 mm	0	0	0	100	100
2	40 mm	191	191	3.82	96.2	95-100
3	20 mm	1820	2011	40.22	59.8	30-70
4	10 mm	1931	3942	78.84	21.2	10-35
5	4.75 mm	890	4832	96.64	3.4	0-5
6	Pan	168	5000	100	0.0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-01-13-02** **Date: 21-01-2017**

Sample ID No : 2017-01-13-02-01(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	**10.4**	_
2	Elongation Index(%)	**12.5**	_
3	Specific Gravity	**2.61**	_
4	Bulk Density(Loose) (Kg/l)	**1.47**	_
5	Bulk Density(Compacted) (Kg/l)	**1.52**	_
6	Water Absorption(%)	**0.19**	_

Note:

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Prepared by
Harshitha

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-01-13-02** **Date: 21-01-2017**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Narasipura 1st Stage in ward No.09 in Vidyaranyapura Sub Division.
Agency	:	Sri. Aswathnarayana, #38, Channappa layout, Sharadamba nagara, Jalahalli village, Bangalore-13.
Customer Reference	:	EE/BTP/BBMP/E-PMT/228/2015-16
Source of Sample	:	Sample supplied by the Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-01-2017
Sample ID No	:	2017-01-13-02-01(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	14-01-2017

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SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken: 5000 **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	40 mm	0	0	0	100	100
2	20 mm	230	230	4.6	95.4	95-100
3	10 mm	2689	2919	58.38	41.62	25-55
4	4.75 mm	1990	4909	98.18	1.82	0-5
5	Pan	91	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-01-13-02** **Date: 21-01-2017**

Sample ID No : 2017-01-13-02-01(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	12.1	_
2	Elongation Index(%)	13.8	_
3	Specific Gravity	2.67	_
4	Bulk Density(Loose) (Kg/l)	1.48	_
5	Bulk Density(Compacted) (Kg/l)	1.53	_
6	Water Absorption(%)	0.18	_
7	Ten percent fine value(KN)	191	_
8	Aggregate crushing Value(%)	23.8	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements
9	Aggregate Impact Value(%)	21.4	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2016-12-12-01** **Date: 12-01-2017**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Narasipura 1st Stage in ward No.09 in Vidyaranyapura Sub Division.
Agency	:	Sri. Aswathnarayana, #38, Channappa layout, Sharadamba nagara, Jalahalli village, Bangalore-13.
Customer's Reference	:	EE/BTP/BBMP/E-PMT/228/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-12-2016
Sample ID No	:	2016-12-12-01-01
Sample Type	:	Birla Super 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	13-12-2016 to 11-01-2017

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Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	**2.45**	–
2	Finess by Air permeablity method (m2/kg, Min)	**275**	225m^2/kg, Min
3	Density (gm/cc)	**2.9**	–
4	Standard Consistency (%)	27.0%	Not specified
5	Initial Setting time	265 minutes	Not less than 30 minutes

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2016-12-12-01** **Date: 12-01-2017**

Sample ID No : **2016-12-12-01-01**

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
6	Final Setting time	300 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm
8	Compressive Strength		
	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
	7 Days	40.0N/mm^2	Not less than 37 N/mm^2
	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Harshitha

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Quality Manager

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-01-13-02** **Date: 23-01-2017**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.
Agency	:	Improvements and Asphalting to roads at Narasipura 1st Stage in ward No.09 in Vidyaranyapura Sub Division.
Project Name	:	Sri. Aswathnarayana, #38, Channappa layout, Sharadamba nagara, Jalahalli village, Bangalore-13.
Customer's Reference	:	EE/BTP/BBMP/E-PMT/228/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-01-2017
Sample ID No	:	2017-01-13-02-03
Sample Type	:	Indus Fe 500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	15-01-2017

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus	Fe500	10mm	0.612	535	638	18.5%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus	Fe500	10mm	Satisfactory	Satisfactory

Note:
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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-01-13-02**	**Date: 23-01-2017**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.	
Agency	:	Improvements and Asphalting to roads at Narasipura 1st Stage in ward No.09 in Vidyaranyapura Sub Division.	
Project Name	:	Sri. Aswathnarayana, #38, Channappa layout, Sharadamba nagara, Jalahalli village, Bangalore-13.	
Customer's Reference	:	EE/BTP/BBMP/E-PMT/228/2015-16	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	13-01-2017	
Sample ID No	:	2017-01-13-02-04	
Sample Type	:	Indus Fe 500	
Reference to BIS codes	:	IS 1786-2008	
Date of test:	:	15-01-2017	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus	Fe500	12mm	0.885	565	669	21.5%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus	Fe500	12mm	Satisfactory	Satisfactory

Note:
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Vidyaranyapura Sub Division
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Authorized Signature
Quality Manager

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-01-25-01** **Date: 31-01-2017**

Customer : Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura, Sub Division, BBMP, Bangalore.

Project Name : Improvements and Asphalting to roads at Narasipura 1st Stage in ward No.09 in Vidyaranyapura Sub Division.

Agency : Sri. Aswathnarayana, #38, Channappa layout, Sharadamba nagara, Jalahalli village, Bangalore-13.

Customer's Reference : EE/BTP/BBMP/E-PMT/228/2015-16

Source of Sample : Sample supplied by the Agency

Sample Condition : Satisfactory

Date of Receipt : 25-01-2017

Sample ID No : 2017-01-25-01-01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/01/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	23/01/2017	30/01/2017	150.22 X 150.17 X 150.22	22559	8.155	372.2	16.5	16.8
2	PCC	M20	23/01/2017	30/01/2017	150.28 X 150.87 X 150.11	22673	8.298	380.9	16.8	
3	PCC	M20	23/01/2017	30/01/2017	150.16 X 150.18 X 150.29	22551	8.267	385.6	17.1	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-01-25-01** **Date: 21-02-2017**

Customer : Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura, Sub Division, BBMP, Bangalore.

Project Name : Improvements and Asphalting to roads at Narasipura 1st Stage in ward No.09 in Vidyaranyapura Sub Division.

Agency : Sri. Aswathnarayana, #38, Channappa layout, Sharadamba nagara, Jalahalli village, Bangalore-13.

Customer's Reference : EE/BTP/BBMP/E-PMT/228/2015-16

Source of Sample : Sample supplied by the Agency

Sample Condition : Satisfactory

Date of Receipt : 25-01-2017

Sample ID No : 2017-01-25-01-02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/02/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	PCC	M20	23/01/2017	20/02/2017	150.19 X 150.16 X 150.34	22553	8.220	507.4	22.5	22.8
2	PCC	M20	23/01/2017	20/02/2017	150.28 X 150.20 X 150.22	22572	8.320	516.9	22.9	
3	PCC	M20	23/01/2017	20/02/2017	150.43 X 150.12 X 150.33	22583	8.312	521.7	23.1	

Note:
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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-01-10-01** **Date: 12-01-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Narasipura 1st Stage in Ward No.09 in Vidyaranyapura Sub Division.
Agency	:	Sri. Aswathnnarayana, #38, Channappa Layout, Sharadamba nagara, Jalahalli Village, Bangalore-13
Customer Reference	:	EE/BTP/BBMP/E-PMT/228/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-01-17
Sample ID No	:	2017-01-10-01/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	11-01-17
Oven Dry Weight(gm)	:	10000

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	254	254	2.54	97.5	95-100
22.4	2543	2797	27.97	72.0	60-80
11.2	1876	4673	46.73	53.3	40-60
4.75	1698	6371	63.71	36.3	25-40
2.36	1545	7916	79.16	20.8	15-30
0.6	987	8903	89.03	11.0	8-22
0.075	776	9679	96.79	3.2	0-5

Note:-

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Prepared By:
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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-01-14-01** **Date: 18-03-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Narasipura 1st Stage in Ward No.09 in Vidyaranyapura Sub Division.
Agency	:	Sri. Aswathnnarayana, #38, Channappa Layout, Sharadamba nagara, Jalahalli Village, Bangalore-13
Customer Reference	:	EE/BTP/BBMP/E-PMT/228/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-03-17
Sample ID No	:	2017-01-14-01/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	16-01-17
Oven Dry Weight(gm)	:	10000

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	243	243	2.43	97.6	95-100
22.4	2613	2856	28.56	71.4	60-80
11.2	1916	4772	47.72	52.3	40-60
4.75	1732	6504	65.04	35.0	25-40
2.36	1499	8003	80.03	20.0	15-30
0.6	994	8997	89.97	10.0	8-22
0.075	672	9669	96.69	3.3	0-5

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore - 97

Note:-

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Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

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Quality Manager

End of Report

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-01-19-01** **Date: 22-01-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Narasipura 1st Stage in Ward No.09 in Vidyaranyapura Sub Division.
Agency	:	Sri. Aswathnnarayana, #38, Channappa Layout, Sharadamba nagara, Jalahalli Village, Bangalore-13
Customer Reference	:	EE/BTP/BBMP/E-PMT/228/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-01-17
Sample ID No	:	2017-01-19-01/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	20-01-17
Oven Dry Weight(gm)	:	10000

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	236	236	2.36	97.6	95-100
22.4	2731	2967	29.67	70.3	60-80
11.2	2032	4999	49.99	50.0	40-60
4.75	1655	6654	66.54	33.5	25-40
2.36	1624	8278	82.78	17.2	15-30
0.6	805	9083	90.83	9.2	8-22
0.075	572	9655	96.55	3.5	0-5

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-01-24-01** **Date: 27-01-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Narasipura 1st Stage in Ward No.09 in Vidyaranyapura Sub Division.
Agency	:	Sri. Aswathnnarayana, #38, Channappa Layout, Sharadamba nagara, Jalahalli Village, Bangalore-13
Customer Reference	:	EE/BTP/BBMP/E-PMT/228/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-01-17
Sample ID No	:	2017-01-24-01/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	25-01-17
Oven Dry Weight(gm)	:	10000

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	236	236	2.36	97.6	95-100
22.4	2731	2967	29.67	70.3	60-80
11.2	2032	4999	49.99	50.0	40-60
4.75	1655	6654	66.54	33.5	25-40
2.36	1565	8219	82.19	17.8	15-30
0.6	911	9130	91.30	8.7	8-22
0.075	612	9742	97.42	2.6	0-5

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-01-30-01** **Date: 01-02-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Narasipura 1st Stage in Ward No.09 in Vidyaranyapura Sub Division.
Agency	:	Sri. Aswathnnarayana, #38, Channappa Layout, Sharadamba nagara, Jalahalli Village, Bangalore-13
Customer Reference	:	EE/BTP/BBMP/E-PMT/228/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-01-17
Sample ID No	:	2017-01-30-01/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	31-01-17
Oven Dry Weight(gm)	:	10000

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	248	248	2.48	97.5	95-100
22.4	2865	3113	31.13	68.9	60-80
11.2	2254	5367	53.67	46.3	40-60
4.75	1643	7010	70.10	29.9	25-40
2.36	1287	8297	82.97	17.0	15-30
0.6	845	9142	91.42	8.6	8-22
0.075	632	9774	97.74	2.3	0-5

Assistant Executive Engineer
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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-02-04-01** **Date: 07-02-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Narasipura 1st Stage in Ward No.09 in Vidyaranyapura Sub Division.
Agency	:	Sri. Aswathnnarayana, #38, Channappa Layout, Sharadamba nagara, Jalahalli Village, Bangalore-13
Customer Reference	:	EE/BTP/BBMP/E-PMT/228/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-02-17
Sample ID No	:	2017-02-04-01/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	04-02-17
Oven Dry Weight(gm)	:	10000

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	198	198	1.98	98.0	95-100
22.4	2752	2950	29.50	70.5	60-80
11.2	1487	4437	44.37	55.6	40-60
4.75	1798	6235	62.35	37.7	25-40
2.36	1287	7522	75.22	24.8	15-30
0.6	1087	8609	86.09	13.9	8-22
0.075	432	9041	90.41	9.6	0-5

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-01-30-01** **Date: 01-02-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Narasipura 1st Stage in Ward No.09 in Vidyaranyapura Sub Division.
Agency	:	Sri. Aswathnnarayana, #38, Channappa Layout, Sharadamba nagara, Jalahalli Village, Bangalore-13.
Customer Reference	:	EE/BTP/BBMP/E-PMT/228/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-01-17
Sample ID No	:	2017-01-30-01/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	31-01-17

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.5%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	10.8%	
Combined Flakiness and Elongation Index for WMM	23.3%	

Note:-
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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-01-19-01** **Date: 22-01-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Narasipura 1st Stage in Ward No.09 in Vidyaranyapura Sub Division.
Agency	:	Sri. Aswathnnarayana, #38, Channappa Layout, Sharadamba nagara, Jalahalli Village, Bangalore-13.
Customer Reference	:	EE/BTP/BBMP/E-PMT/228/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-01-17
Sample ID No	:	2017-01-19-01/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	20-01-17

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	9.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.1%	
Combined Flakiness and Elongation Index for WMM	21.9%	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-01-10-01**	**Date: 12-01-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements and Asphalting to roads at Narasipura 1st Stage in Ward No.09 in Vidyaranyapura Sub Division.	
Agency	:	Sri. Aswathnnarayana, #38, Channappa Layout, Sharadamba nagara, Jalahalli Village, Bangalore-13.	
Customer Reference	:	EE/BTP/BBMP/E-PMT/228/2015-16	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	10-01-17	
Sample ID No	:	2017-01-10-01/01	
Type of Mix	:	WMM (Wet Mix Macadam)	
Date of test	:	11-01-17	

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	10.7%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	13.1%	
Combined Flakiness and Elongation Index for WMM	23.8%	

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End of Report

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2017-01-30-01**	**Date: 01-02-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements and Asphalting to roads at Narasipura 1st Stage in Ward No.09 in Vidyaranyapura Sub Division.	
Agency	:	Sri. Aswathnnarayana, #38, Channappa Layout, Sharadamba nagara, Jalahalli Village, Bangalore-13	
Customer Reference	:	EE/BTP/BBMP/E-PMT/228/2015-16	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	30-01-17	
Sample ID No	:	2017-01-30-01/01	
Type of Mix	:	WMM (Wet Mix Macadam)	
Date of test	:	31-01-17	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	315.0	315.5
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	70.9	72.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	243.6	243.1
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.5	0.4
5	Aggregate impact value	(B/A)*100	22.5	22.8
6	Aggregate impact value (Mean of two tests)	Pecentage	22.7	

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2017-01-19-01** **Date: 22-01-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Narasipura 1st Stage in Ward No.09 in Vidyaranyapura Sub Division.
Agency	:	Sri. Aswathnnarayana, #38, Channappa Layout, Sharadamba nagara, Jalahalli Village, Bangalore-13
Customer Reference	:	EE/BTP/BBMP/E-PMT/228/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-01-17
Sample ID No	:	2017-01-19-01/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	20-01-17

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	321.2	321.8
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	61.5	64.3
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	259.2	257.1
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.5	0.4
5	Aggregate impact value	(B/A)*100	19.1	20.0
6	Aggregate impact value (Mean of two tests)	Pecentage	19.6	

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Vidyaranyapura Sub Division

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2017-01-10-01**	**Date: 12-01-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements and Asphalting to roads at Narasipura 1st Stage in Ward No.09 in Vidyaranyapura Sub Division.	
Agency	:	Sri. Aswathnnarayana, #38, Channappa Layout, Sharadamba nagara, Jalahalli Village, Bangalore-13.	
Customer Reference	:	EE/BTP/BBMP/E-PMT/228/2015-16	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	10-01-17	
Sample ID No	:	2017-01-10-01/01	
Type of Mix	:	WMM (Wet Mix Macadam)	
Date of test	:	11-01-17	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	302.7	302.1
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	66.8	69.1
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	235.2	232.5
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.7	0.5
5	Aggregate impact value	(B/A)*100	22.1	22.9
6	Aggregate impact value (Mean of two tests)	Pecentage	22.5	

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TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2017-02-15-01** **Date: 20-02-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Narasipura 1st Stage in Ward No.09 in Vidyaranyapura Sub Division.
Agency	:	Sri. Aswathnnarayana, #38, Channappa Layout, Sharadamba nagara, Jalahalli Village, Bangalore-13
Customer's Reference	:	EE/BTP/BBMP/E-PMT/228/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-02-17
Sample ID No	:	2017-02-15-01/02
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004), Stripping Value IS:6241-1971((Reaffirmed-2003)
Date of test	:	16-02-17

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	**63.5**	60 to 70
2	Softening Point, °C	**49.2**	Min. 40°C
3	Ductility, cm	**95.0**	Min. 75cm
4	Flash point, °C	**230.5**	Min. 220°C
	Fire point, °C	**295.5**	
5	Stripping Value	**3.0**	Not more than 5%

Note:
The results pertain to the samples received and tested.
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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 13

Prepared by
Harshitha

FOR CIVIL Pro.

CIVIL PRO Sig..... Date..... BANGALORE

R KARTHIK RECHAN
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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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TEST RESULTS OF GRADATION FOR SDBC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-02-15-01**	**Date: 20-02-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements and Asphalting to roads at Narasipura 1st Stage in Ward No.09 in Vidyaranyapura Sub Division.	
Agency	:	Sri. Aswathnnarayana, #38, Channappa Layout, Sharadamba nagara, Jalahalli Village, Bangalore-13	
Customer Reference	:	EE/BTP/BBMP/E-PMT/228/2015-16	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	15-02-17	
Sample ID No	:	2017-02-15-01/01	
Type of Mix	:	SDBC-Plant (Semi Dense Bituminous Concrete)	
Date of test	:	16-02-17	
Oven Dry Weight(gm)	:	5000	

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100	100
9.5	410	410	8.20	91.80	90-100
4.75	2187	2597	51.94	48.06	35-51
2.36	1038	3635	72.70	27.30	24-39
1.18	525	4160	83.20	16.80	15-30
0.3	503	4663	93.26	6.74	9-19
0.075	169	4832	96.64	3.36	3-8
PAN	168	5000	100.00	0.00	0

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-02-15-01**	**Date: 20-02-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements and Asphalting to roads at Narasipura 1st Stage in Ward No.09 in Vidyaranyapura Sub Division.	
Agency	:	Sri. Aswathnnarayana, #38, Channappa Layout, Sharadamba nagara, Jalahalli Village, Bangalore-13	
Customer Reference	:	EE/BTP/BBMP/E-PMT/228/2015-16	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	15-02-17	
Sample ID No	:	2017-02-15-01/01	
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)	
Date of test	:	16-02-17	

Result:

Flakiness Index	7.8%
Elongation Index	9.7%
Combined Flakiness & Elongation Index for SDBC	17.5%

Comments:

Maximum allowable Flakiness & Elongation Index For SDBC is 30 %

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TESTS RESULTS ON AGGREGATE IMPACT VALUE
(IS:2386 Part IV)

Lab ID : **CP-RW-2017-02-15-01** **Date: 20-02-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements and Asphalting to roads at Narasipura 1st Stage in Ward No.09 in Vidyaranyapura Sub Division.

Agency : Sri. Aswathnnarayana, #38, Channappa Layout, Sharadamba nagara, Jalahalli Village, Bangalore-13

Customer Reference : EE/BTP/BBMP/E-PMT/228/2015-16

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-02-17

Sample ID No : 2017-02-15-01/01

Type of Mix : SDBC (Semi Dense Bituminous Concrete)

Date of test : 16-02-17

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	310.2	309.6
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	65.6	63.5
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	244.1	245.2
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.5	0.9
5	Aggregate impct value	(B/A)*100	21.15	20.51
6	Aggregate impct value (Mean of two tests)		20.8	

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SPECIFIC GRAVITY AND WATER ABSORPTION TEST
IS:2386 (Part III)

Lab ID	:	**CP-RW-2017-02-15-01**	**Date: 20-02-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Agency	:	Improvements and Asphalting to roads at Narasipura 1st Stage in Ward No.09 in Vidyaranyapura Sub Division.	
Project Name	:	Sri. Aswathnnarayana, #38, Channappa Layout, Sharadamba nagara, Jalahalli Village, Bangalore-13	
Customer Reference	:	EE/BTP/BBMP/E-PMT/228/2015-16	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	15-02-17	
Sample ID No	:	2017-02-15-01/01	
Type of Mix	:	SDBC (Semi Dense Bituminous concrete)	
Date of test	:	16-02-17	

Sl.No	Details of Observations	Index	Unit	Test 1	Test 2	Mean Value
1	Weight of Wet aggregates + Basket suspended in water	A1	grams	2157	2150	
2	Weight of Empty Basket suspended in water	A2	grams	791	791	
3	Weight of Aggregates in water	A=A1-A2	grams	1366	1359	
4	Weight of Saturated Surface Dry aggregate	B	grams	2212	2208	
5	Weight of oven dried aggregate	C	grams	2207	2203	
6	Specific gravity	C/(B-A)		2.61	2.59	2.60
7	Apparent Specific gravity	C/(C-A)		2.62	2.61	2.62
8	Water absorption	100*(B-C) /C	Percent	0.23	0.23	0.23

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Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore - 91

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TEST RESULTS OF BITUMEN CONTENT FOR SDBC
(AS per IRC:SP:-11-1984)

Lab ID	:	**CP-RW-2017-02-25-01** **Date: 28-02-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Narasipura 1st Stage in Ward No.09 in Vidyaranyapura Sub Division.
Agency	:	Sri. Aswathnnarayana, #38, Channappa Layout, Sharadamba nagara, Jalahalli Village, Bangalore-13
Customer Reference	:	EE/BTP/BBMP/E-PMT/228/2015-16
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	25-02-17
Sample ID No	:	2017-02-25-01/01
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)
Date of test	:	25-02-17

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	503	505
2	Weight of the sample After extraction	B	474	475
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.77	5.94
4	Average percentage	%	5.85	

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Lab ID : **CP-RW-2017-02-25-01** **Date: 28-02-17**

Sample ID No : **2017-02-25-01/01**

AFTER EXTRACTION (Trail-1)

Oven Dry Weight(gm) : 474

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	27	27	5.7	94.3	90-100
4.75	205	232	48.9	51.1	35-51
2.36	121	353	74.5	25.5	24-39
1.18	43	396	83.5	16.5	15-30
0.3	29	425	89.7	10.3	9-19
0.075	31	456	96.2	3.8	3-8

AFTER EXTRACTION (Trail-2)

Oven Dry Weight(gm) : 475

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	19	19	4.0	96.0	90-100
4.75	265	284	59.8	40.2	35-51
2.36	71	355	74.7	25.3	24-39
1.18	38	393	82.7	17.3	15-30
0.3	27	420	88.4	11.6	9-19
0.075	29	449	94.5	5.5	3-8

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